

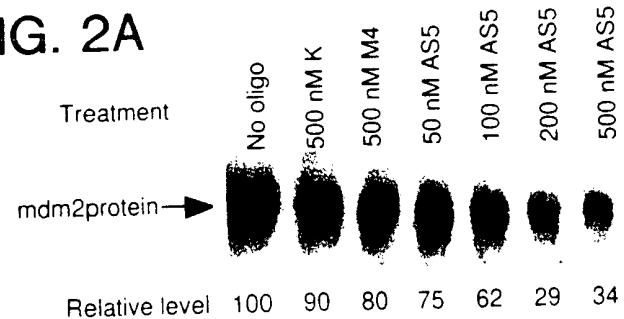
GCACCGCGCG AGCTTGGCTG CTTCTGGGC CTGTGTGGC CTGTGTGTCG GAAAGATGGA  
GCAAGAAGCC GAGCCCGAGG GGCGGCCGCG ACCCCTCTGA CCGAGATCCT GCTGCTTTCG  
CAGCCAGGAG CACCGTCCCT CCCCGGATTA GTGCGTACGA GCGCCCAGTG CCCTGGCCCG  
GAGAGTGGAA TGATCCCCGA GGCCCAGGGC GTCTGCTTC CGCAGTAGTC AGTCCCCGTG  
AAGGAAACTG GGGAGTCTTG AGGGACCCCC GACTCCAAGC GCGAAAACCC CGGATGGTGA  
GGAGCAGGCA AATGTGCAAT ACCAACATGT CTGTACCTAC TGATGGTGT GTAACCACCT  
CACAGATTCC AGCTTCGAA CAAGAGACCC TGGTTAGACC AAAGCCATTG CTTTTGAAGT  
TATTAAGTC TGTTGGTGA CAAAAAGACA CTTATACTAT GAAAGAGGTT CTTTTTATC  
TTGGCCAGTA TATTATGACT AAACGATTAT ATGATGAGAA GCAACAAACAT ATTGTATATT  
GTTCAAATGA TCTTCTAGGA GATTGTTTG GCGTCCAAG CTTCTCTGTG AAAGAGCACA  
GGAAAATATA TACCATGATC TACAGGAAC TGGTAGTAGT CAATCAGCAG GAATCATCGG  
ACTCAGGTAC ATCTGTGAGT GAGAACAGGT GTCACCTGA AGGTGGGAGT GATCAAAGG  
ACCTTGTACA AGAGCTTCAG GAAGAGAAC CTTCATCTTC ACATTTGGTT TCTAGACCAT  
CTACCTCATC TAGAAGGAGA GCAATTAGTG AGACAGAAGA AAATTCAAGAT GAATTATCTG  
GTGAACGACA AAGAAAACGC CACAAATCTG ATAGTATTTC CTTTCCTT GATGAAAGCC  
TGGCTCTGTG TGTAATAAGG GAGATATGTT GTGAAAGAAG CAGTAGCAGT GAATCTACAG  
GGACGCCATC GAATCCGGAT CTTGATGCTG GTGTAAGTGA ACATTCAAGGT GATTGGTTGG  
ATCAGGATTG AGTTTCAGAT CAGTTAGTG TAGAATTGAA AGTTGAATCT CTCGACTCAG  
AAGATTATAG CCTTAGTGAA GAAGGACAAG AACTCTCAGA TGAAGATGAT GAGGTATATC  
AAGTTACTGT GTATCAGGCA GGGGAGAGTG ATACAGATTG ATTTGAAGAA GATCCTGAAA  
TTTCCTTAGC TGACTATTGG AAATGCACTT CATGCAATGA AATGAATCCC CCCCTTCCAT  
CACATTGCAA CAGATGTTGG GCCCTTCGTG AGAATTGGCT TCCTGAAGAT AAAGGGAAAG  
ATAAAGGGGA AATCTCTGAG AAAGCCAAAC TGGAAAACTC AACACAAGCT GAAGAGGGCT  
TTGATGTTCC TGATTGTAAGG AAAACTATAG TGAATGATTG CAGAGAGTCA TGTGTTGAGG  
AAAATGATGA TAAAATTACA CAAGCTTCAC AATCACAAGA AAGTGAAGAC TATTCTCAGC  
CATCAACTTC TAGTAGCATT ATTTATAGCA GCCAAGAAGA TGTGAAAGAG TTTGAAAGGG  
AAGAAACCCA AGACAAAGAA GAGAGTGTGG AATCTAGTTT GCCCTTAAT GCCATTGAAC  
CTTGTGTGAT TTGTCAGGT CGACCTAAAA ATGGTTGCAT TGTCCATGGC AAAACAGGAC  
ATCTTATGGC CTGCTTACA TGTGAAAGA AGCTAAAGAA AAGGAATAAG CCCTGCCAG  
TATGTAGACA ACCAATTCAA ATGATTGTGC TAACTTATT CCCCTAGTTG ACCTGTCTAT  
AAGAGAATTA TATATTCTA ACTATATAAC CCTAGGAATT TAGACAACCT GAAATTATT  
CACATATATC AAAGTGAGAA AATGCCTCAA TTCACATAGA TTTCTCTCT TTGACTTGA ATATGTAGCT  
TGACCTACTT TGGTAGTGGA ATAGTGAATA CTTACTATAA TTTGACTTGA ATATGTAGCT  
CATCCTTAC ACCAACTCCT AATTTAAAT AATTTCTACT CTGCTTAAA TGAGAAGTAC  
TTGGTTTTT TTTCTTAAA TATGTATATG ACATTAAAT GTAACCTATT ATTTTTTTG  
AGACCGAGTC TTGCTCTGTT ACCCAGGCTG GAGTGCAGTG GGTGATCTG GCTCACTGCA  
AGCTCTGCC TCCCCGGTT CGACCATTC TCCTGCCCTCA GCCTCCCAAT TAGCTTGGCC  
TACAGTCATC TGCCACCACA CCTGGCTAAAT TTTTTGACT TTTAGTAGAG ACAGGGTTTC  
ACCGTGTAG CCAGGATGGT CTCGATCTCC TGACCTCGTG ATCCGCCAC CTCGGCCTCC  
CAAAGTGTG GGATTACAGG CATGAGCCAC CG

FIG. 1A

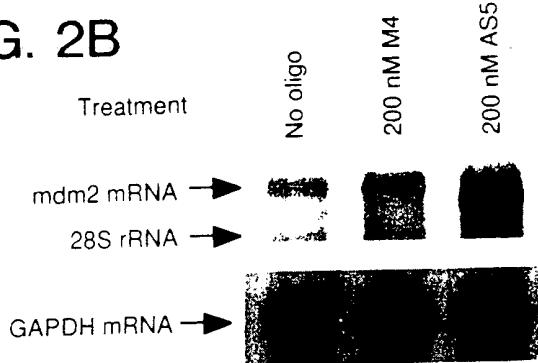
GAGGAGCCGC CGCCTCTCG TCGCTGAGC TCTGGACGAC CATGGTCGCT CAGGCCCGT  
CCGGGGGCC TCCGCGCTCC CCGTGAAGGG TCGGAAGATG CGCGGGAAAGT AGCAGCCGTC  
TGCTGGCGA GCGGGAGACC GACCGGACAC CCCTGGGGGA CCCTCTCGGA TCACCGCGCT  
TCTCCTCGGG CCTCCAGGCC AATGTGCAAT ACCAACATGT CTGTGTCTAC CGAGGGTGCT  
GCAAGCACCT CACAGATTCC AGCTTCGAA CAAGAGACTC TGGTTAGACC AAAACCATTG  
CTTTGAAGT TGTTAAAGTC CGTTGGAGCG CAAAACGACA CTTACACTAT GAAAGAGATT  
ATATTTATA TTGGCCAGTA TATTATGACT AAGAGGTTAT ATGACGAGAA GCAGCAGCAC  
ATTGTGTATT GTTCAAATGA TCTCCTAGGA GATGTGTTG GAGTCCCAGG TTTCTCTGTG  
AAGGAGCACA GGAAAATATA TGCAATGATC TACAGAAATT TAGTGGCTGT AAGTCAGCAA  
GAECTCTGGCA CATCGCTGAG TGAGAGCAGA CGTCAGCCTG AAGGTGGGAG TGATCTGAAG  
GATCCTTGCA AAGGCCACC AGAAGAGAAA CCTTCATCTT CTGATTTAAT TTCTAGACTG  
TCTACCTCAT CTAGAAGGAG ATCCATTAGT GAGACAGAAG AGAACACAGA TGAGCTACCT  
GGGGAGCGGC ACCGGAAGCG CCGCAGGTCC CTGTCCTTG ATCCGAGCCT GGGTCTGTGT  
GAGCTGAGGG AGATGTGCAG CGGCAGCACG AGCAGCAGTA GCAGCAGCAG CAGCAGTCC  
ACAGAGACGC CCTCGCATCA GGATCTTGAC GATGGCGTAA GTGAGCATTG TGGTGATTGC  
CTGGATCAGG ATTCACTTTC TGATCAGTTT AGCGTGAAT TTGAAGTTGA GTCTCTGGAC  
TCGGAAGATT ACAGCCTGAG TGACGAAGGG CACGAGCTCT CAGATGAGGA TGATGAGGTC  
TATCGGTCA CAGTCTATCA GACAGGAGAA AGCGATACAG ACTCTTTGA AGGAGATCCT  
GAGATTCCT TAGCTGACTA TTGGAAGTGT ACCTCATGCA ATGAAATGAA TCCTCCCTT  
CCATCACACT GCAAAAGATG CTGGACCCTT CGTGAGAACT GGCTTCCAGA CGATAAGGGG  
AAAGATAAAAG TGGAAATCTC TGAAAAAGCC AAACCTGGAAA ACTCAGCTCA GGCGAGAACAA  
GGCTTGGATG TGCCTGATGG CAAAAAGCTG ACAGAGAATG ATGCTAAAGA GCCATGTGCT  
GAGGAGGACA GCGAGGAGAA GGCGAACAG ACGCCCTGT CCCAGGAGAG TGACGACTAT  
TCCCAACCCT CGACTTCCAG CAGCATTGTT TATAGCAGCC AAGAAAGCGT GAAAGAGTTG  
AAGGAGGAAA CGCAGCACAA AGACGAGAGT GTGGAATCTA GCTTCTCCCT GAATGCCATC  
GAACCATGTG TGATCTGCCA GGGCGGCCT AAAATGGCT GCATTGTTCA CGGCAAGACT  
GGACACCTCA TGTCACTGTTT CACGTGTGCA AAGAAGCTAA AAAAAAGAAA CAAGCCCTGC  
CCAGTGTGCA GACAGCCAAT CCAAATGATT GTGCTAAGTT ACTTCAACTA GCTGACCTGC  
TCACAAAAAT AGAATTTAT ATTTCTAACT

**FIG. 1B**

**FIG. 2A**



**FIG. 2B**



**FIG. 2C**

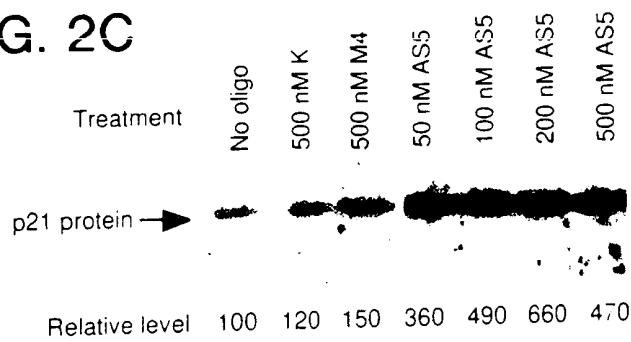


FIG. 3C

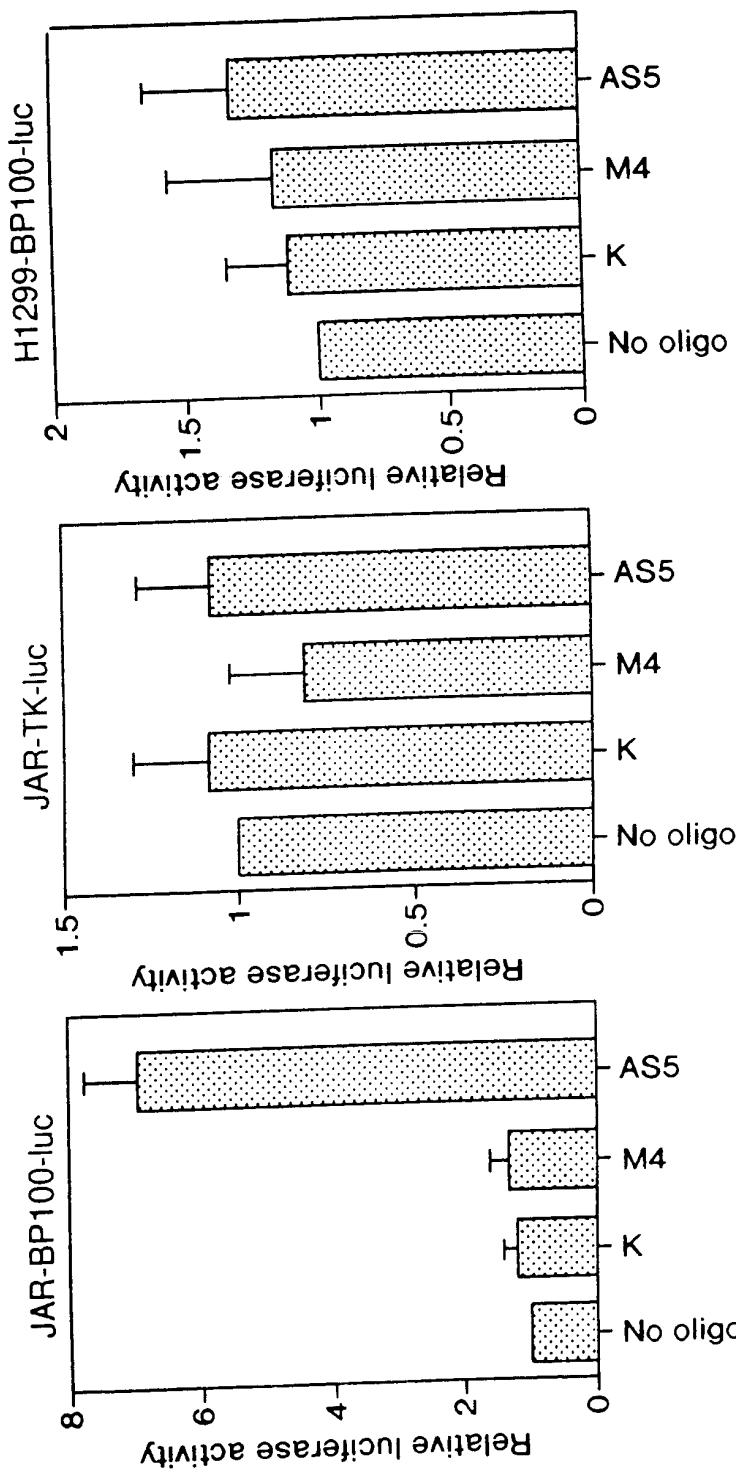


FIG. 3B

FIG. 3A

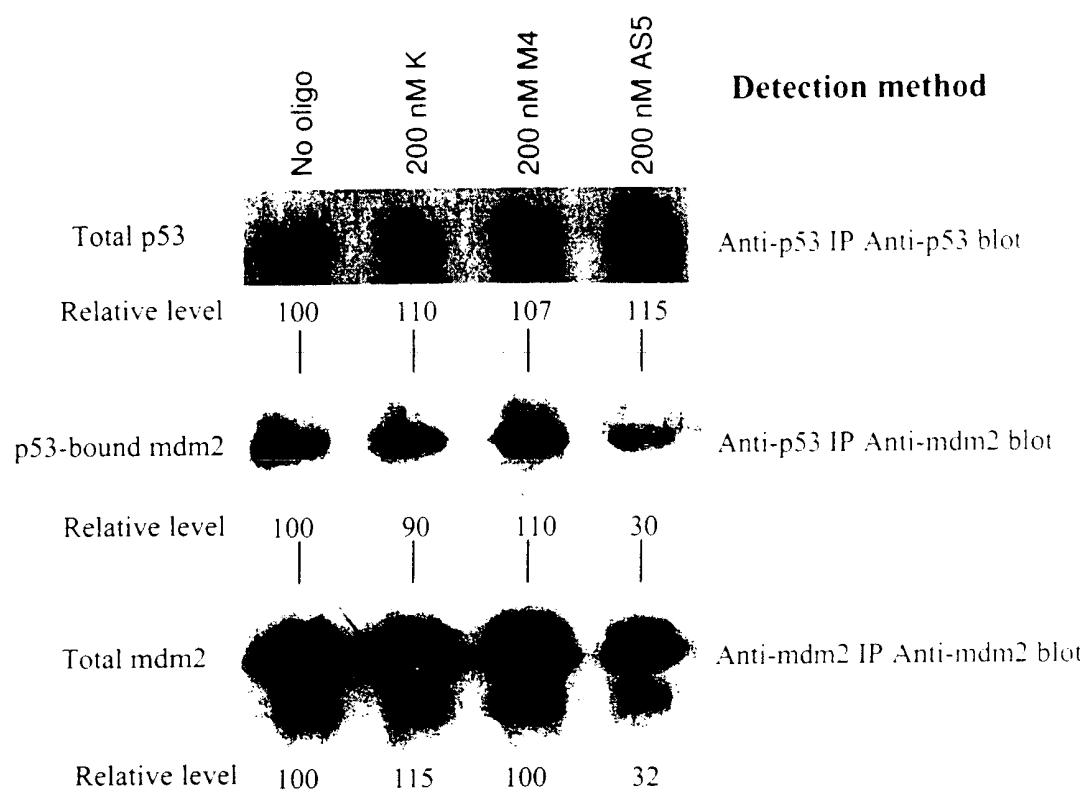


FIG. 4

JAR + 200 nM AS5

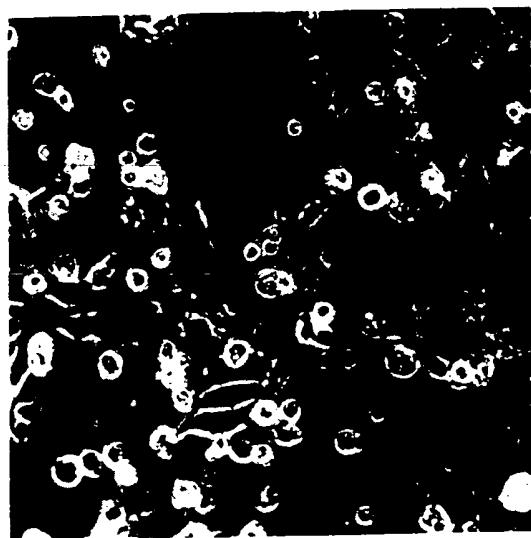


FIG. 5A

JAR + 200 nM M4

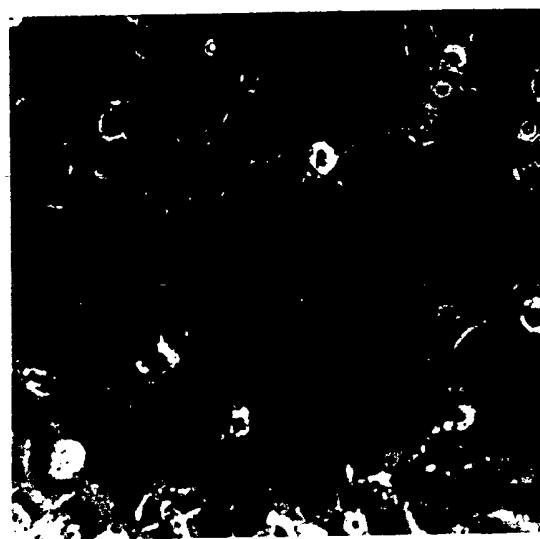


FIG. 5B

615-  
492-  
369-  
246-  
123-

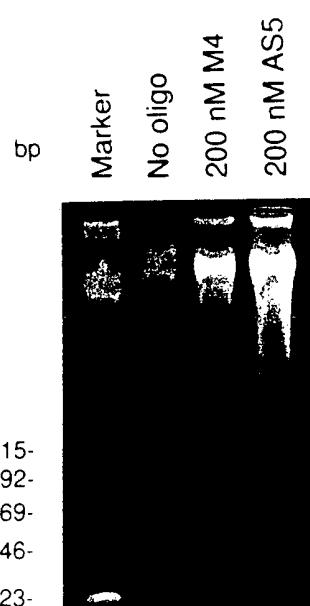
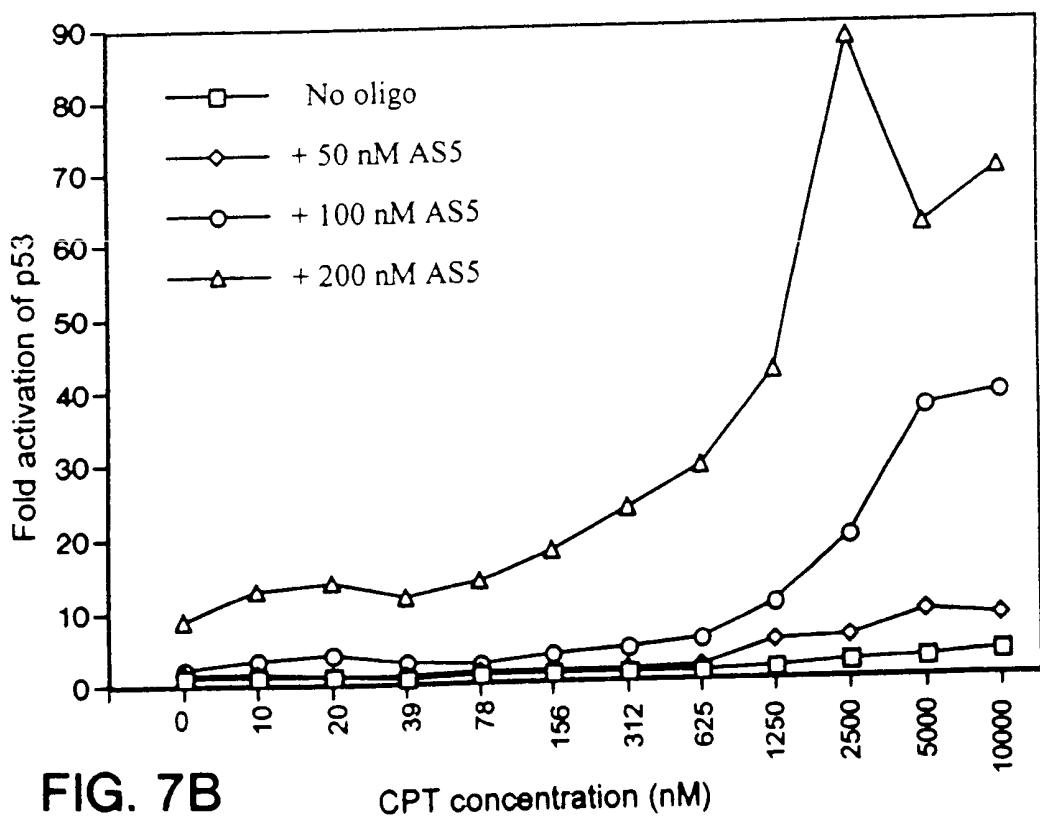
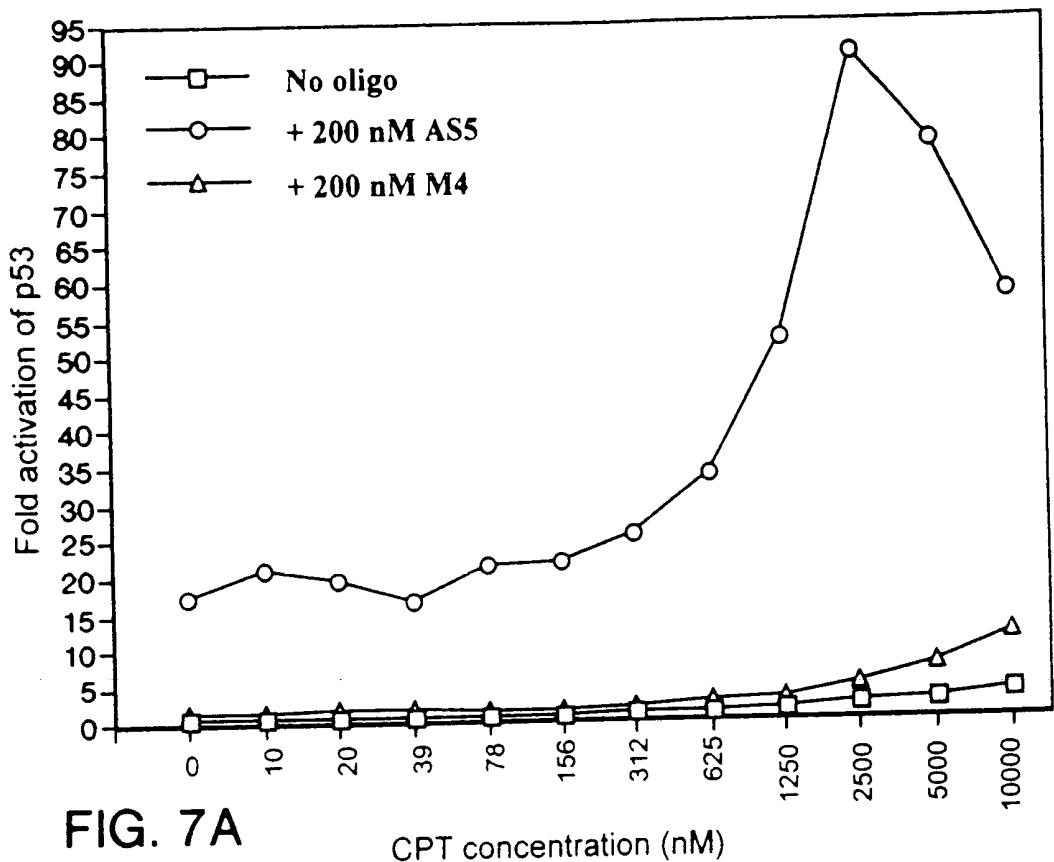


FIG. 6



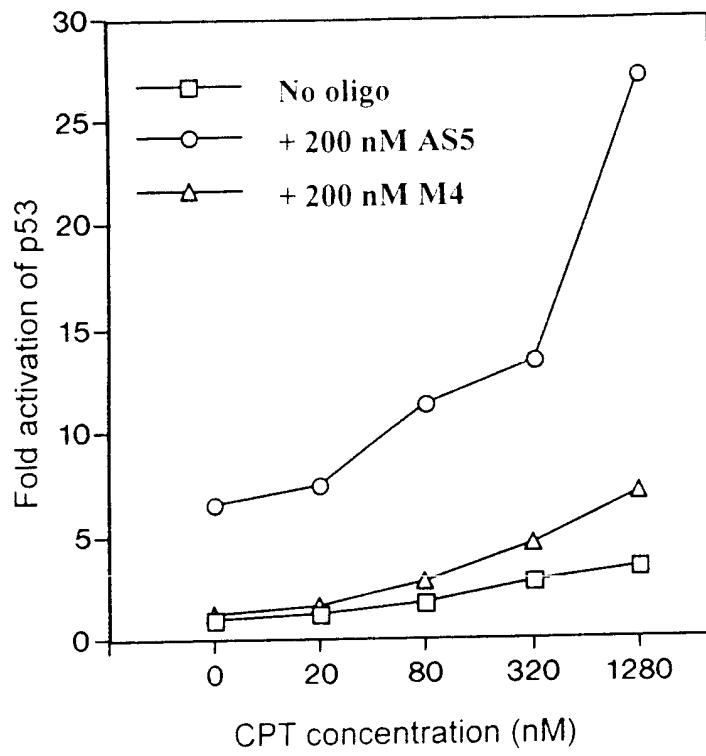


FIG. 7C

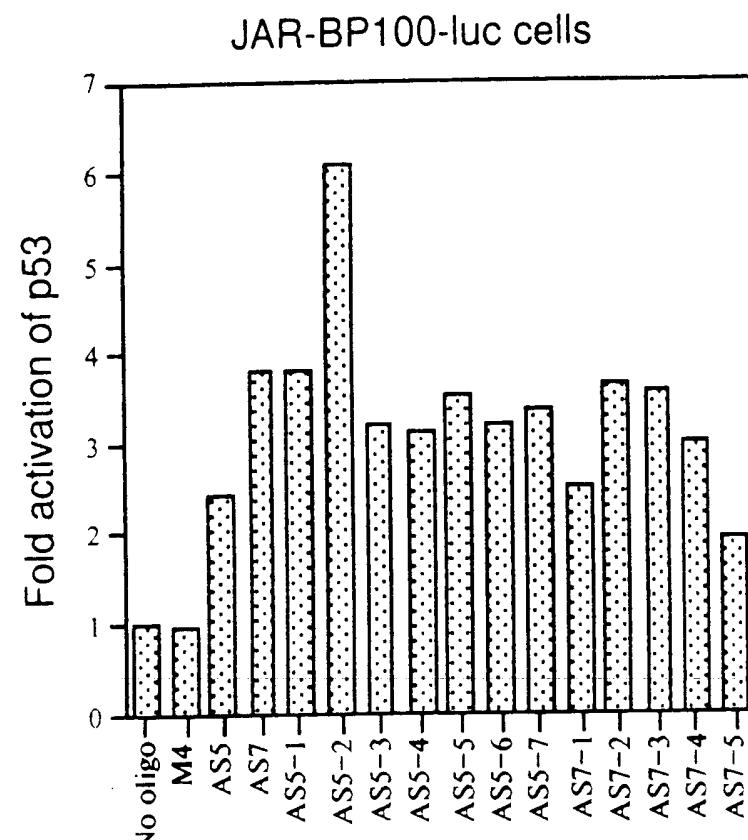


FIG. 8A

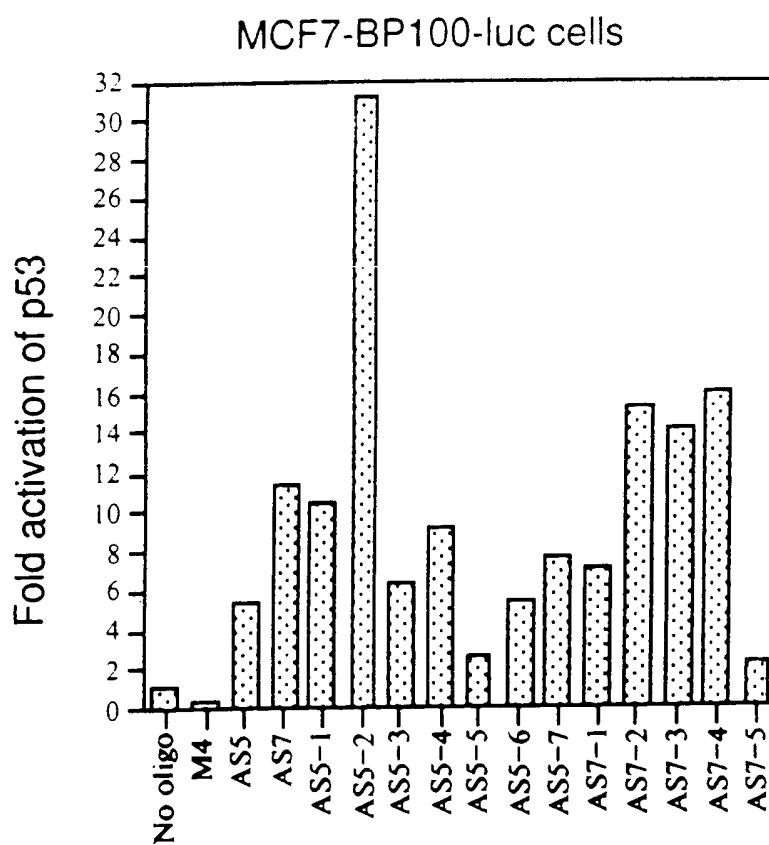
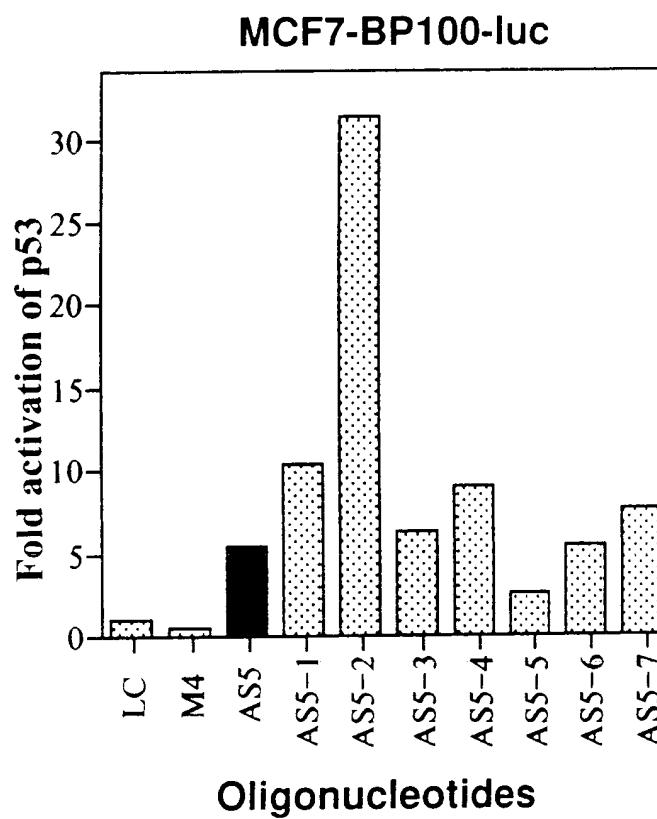


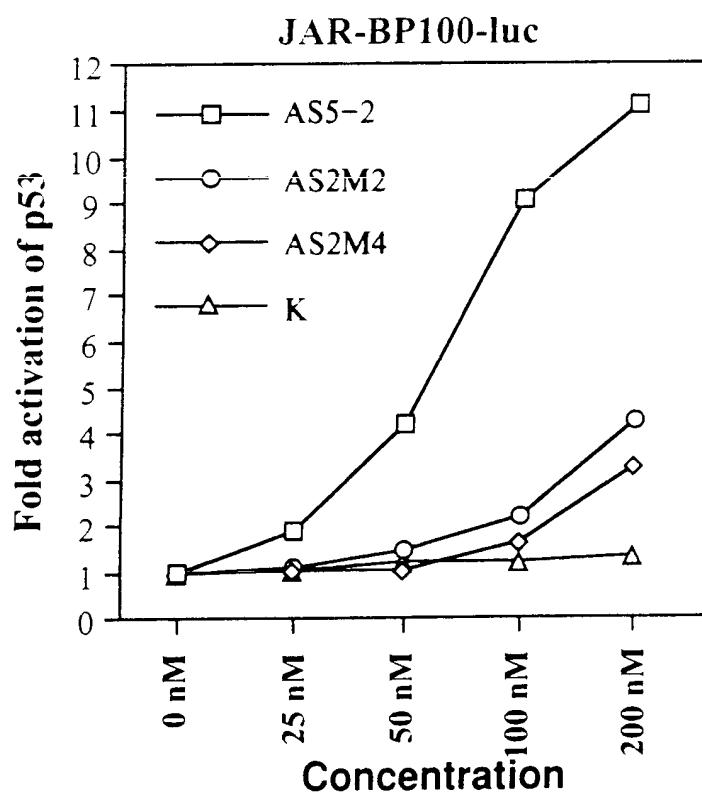
FIG. 8B

## FIG. 9A

353-TCCATGAGACACTCACTTGTCCACAGTGGAACTTCCACCCCTCACTAGTTCTGGAACATGTTCTCGAA SEQ ID NO.: 49  
SEQ ID NO.: 35 **AS5-1:** TGTAGACACTCACTCTGTC **AS5:** GGAACCTCCACCCCTCACTAG SEQ ID NO.: 28  
SEQ ID NO.: 36 **AS5-2:** CACTCACTCTGTCACAGT **AS5-5:** ACCCTCACTAGTTCTGG SEQ ID NO.: 39  
SEQ ID NO.: 37 **AS5-3:** ACTCTTGTCACAGTGGAAC **AS5-6:** CACTAGTTCTGGAACAT SEQ ID NO.: 40  
SEQ ID NO.: 38 **AS5-4:** TGTCACAGTGGAACTTCCA **AS5-7:** TTCCCTGGAACATGTTCTCGA SEQ ID NO.: 41



**FIG. 9B**



**FIG. 9C**

FIG. 10A-1 FIG. 10A-2

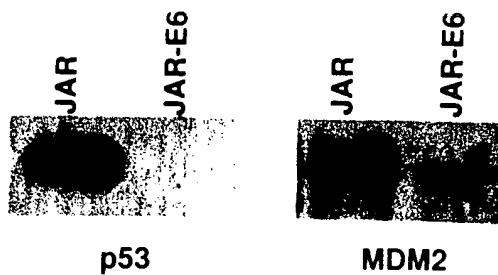


FIG. 10B-1

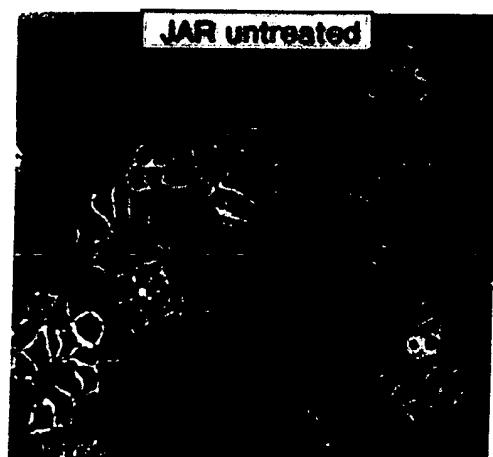


FIG. 10B-2

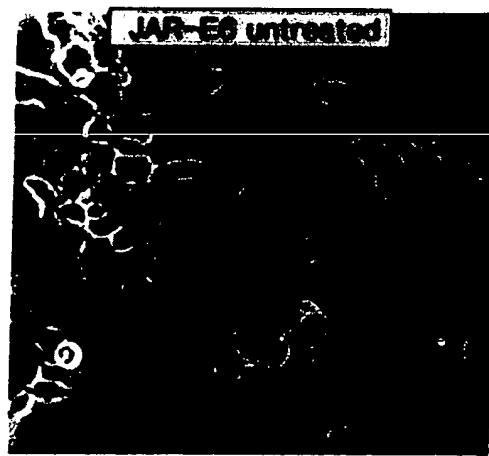
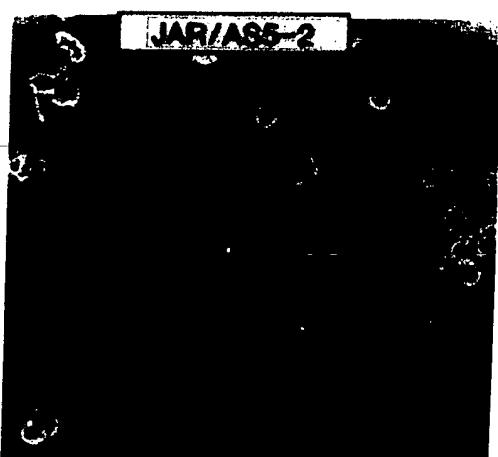


FIG. 10B-3

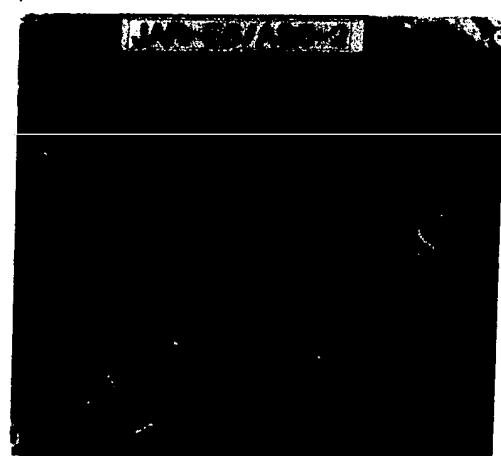
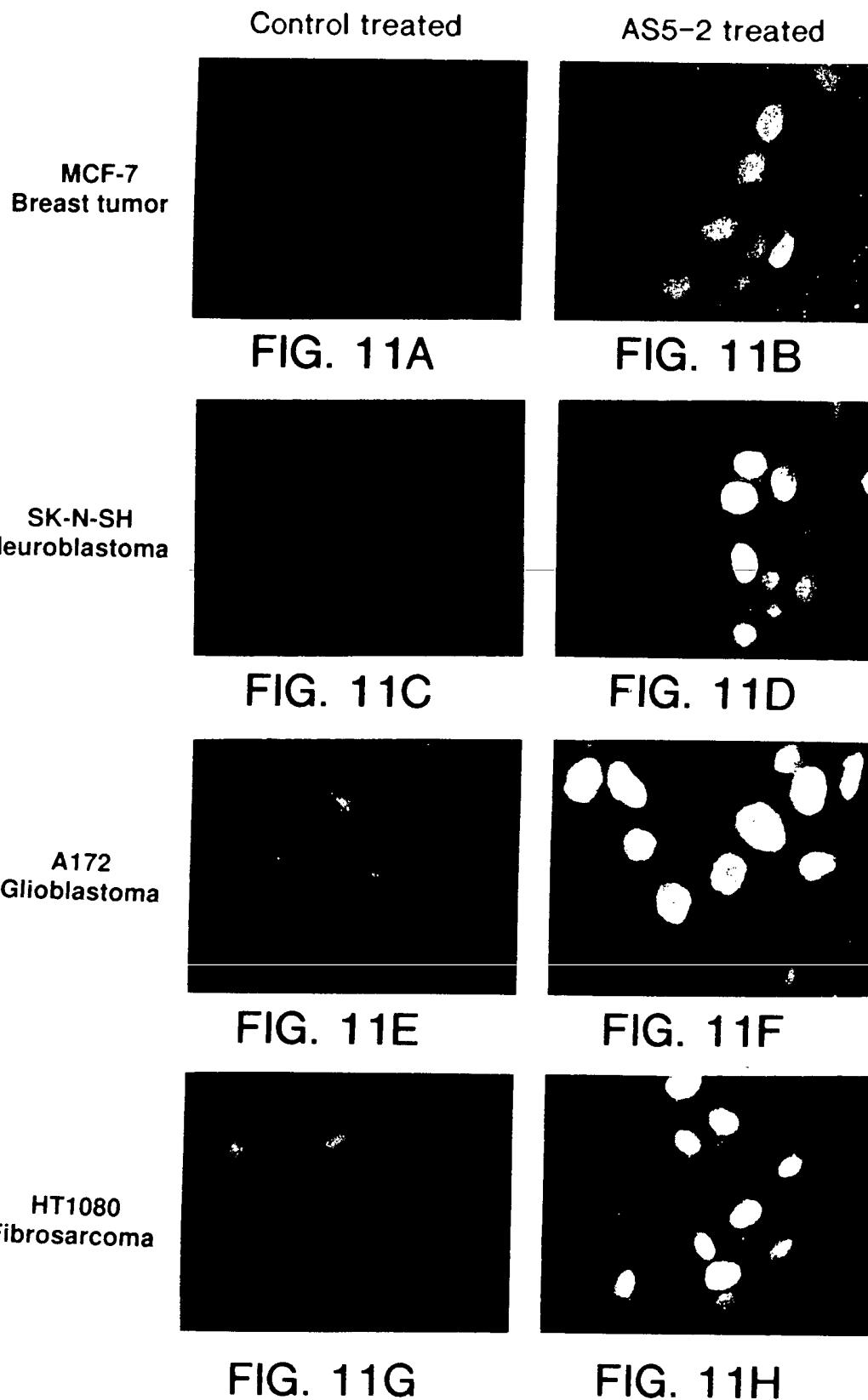


FIG. 10B-4



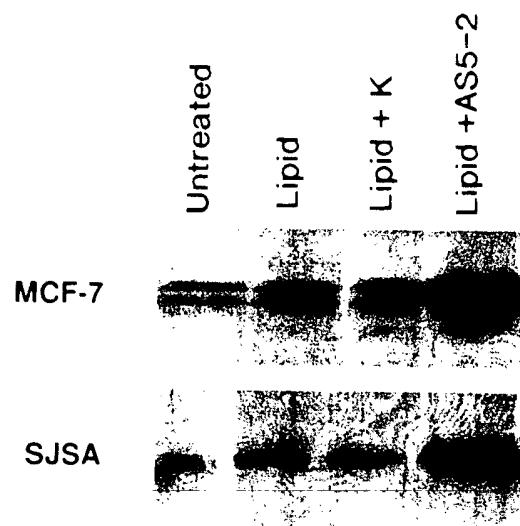


FIG. 12A

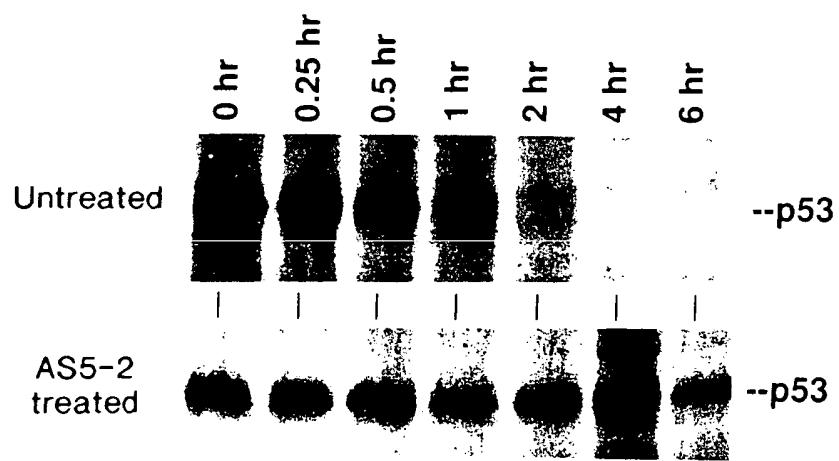


FIG. 12B

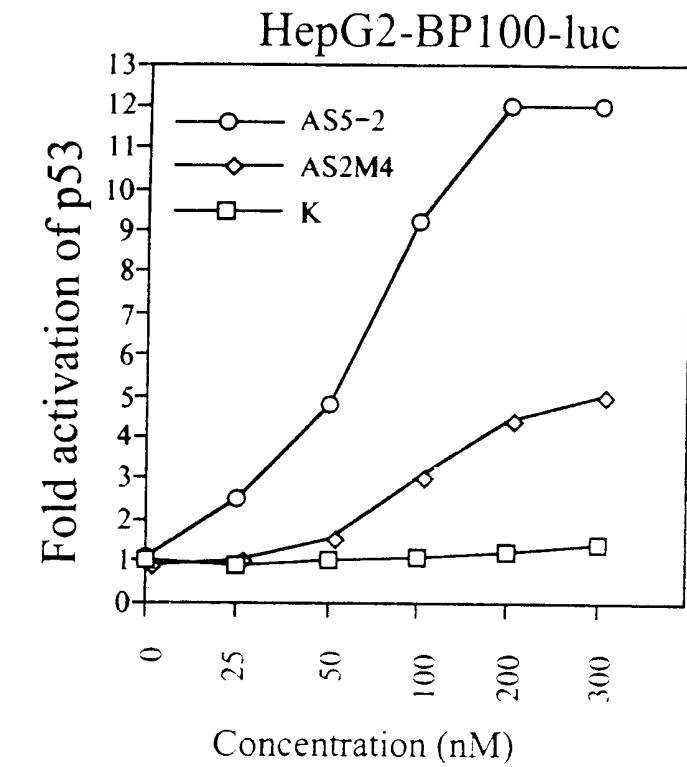


FIG. 13A

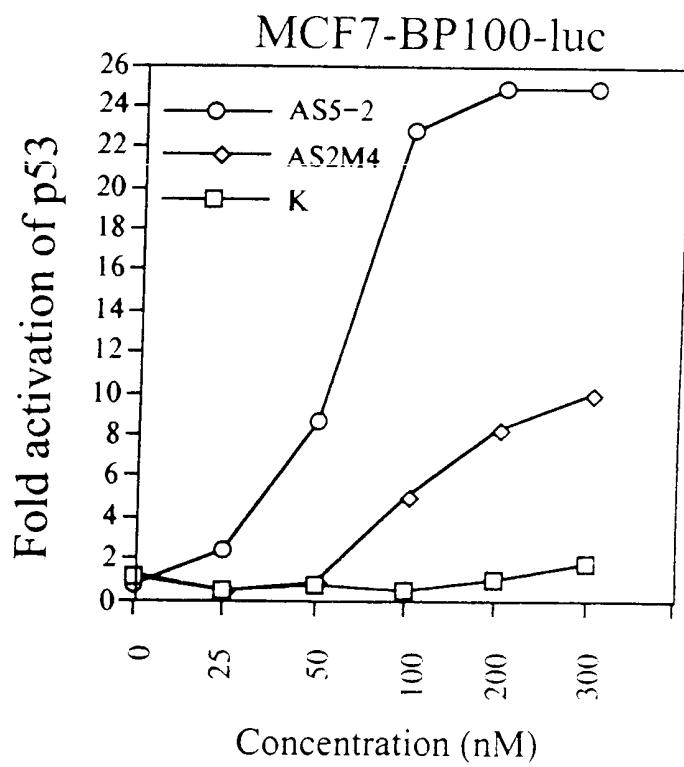


FIG. 13B

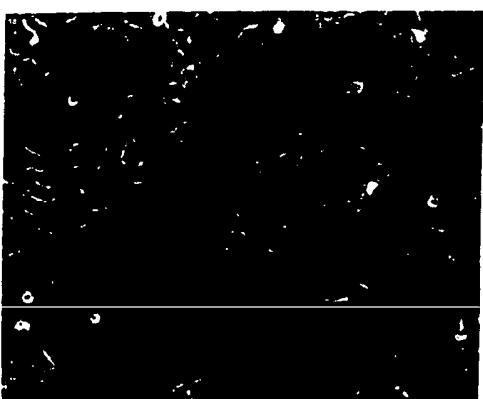
**FIG. 14A**

Control treated

HT1080

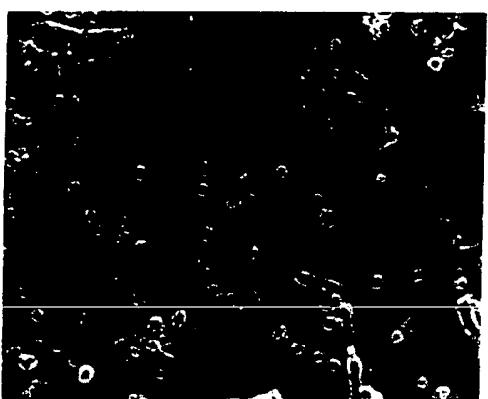


PA-1



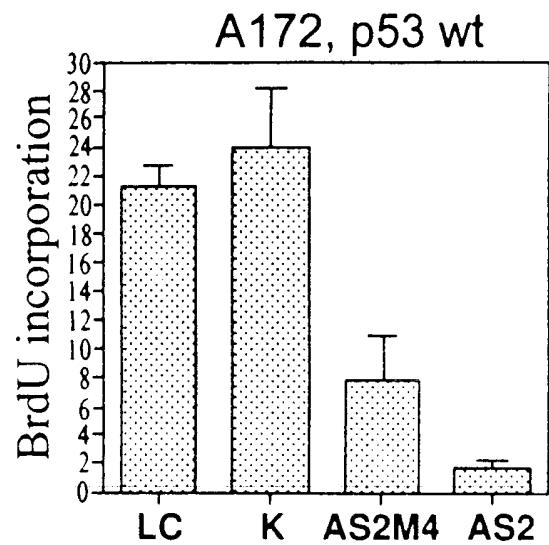
**FIG. 14B**

AS5-2 treated

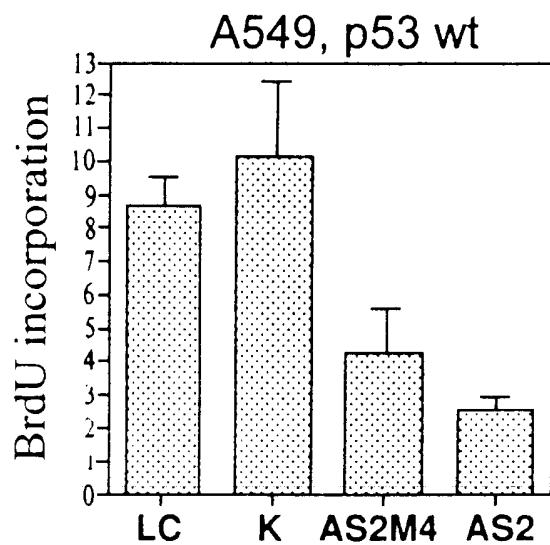


**FIG. 14C**

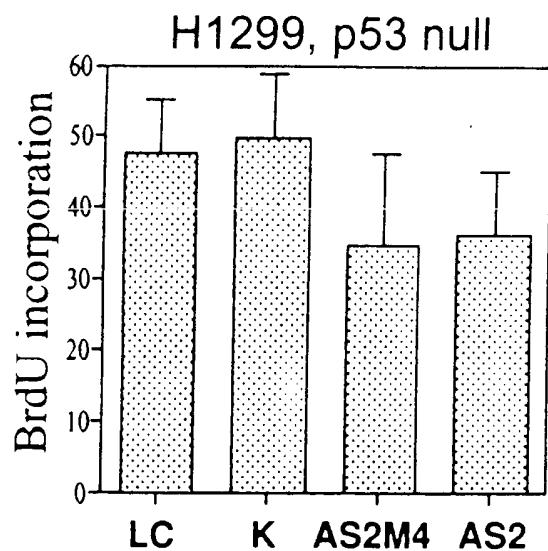
**FIG. 14D**



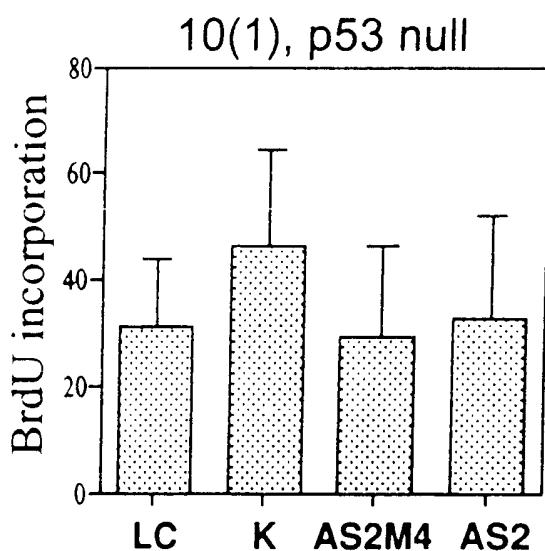
**FIG. 15A**



**FIG. 15B**



**FIG. 15C**



**FIG. 15D**

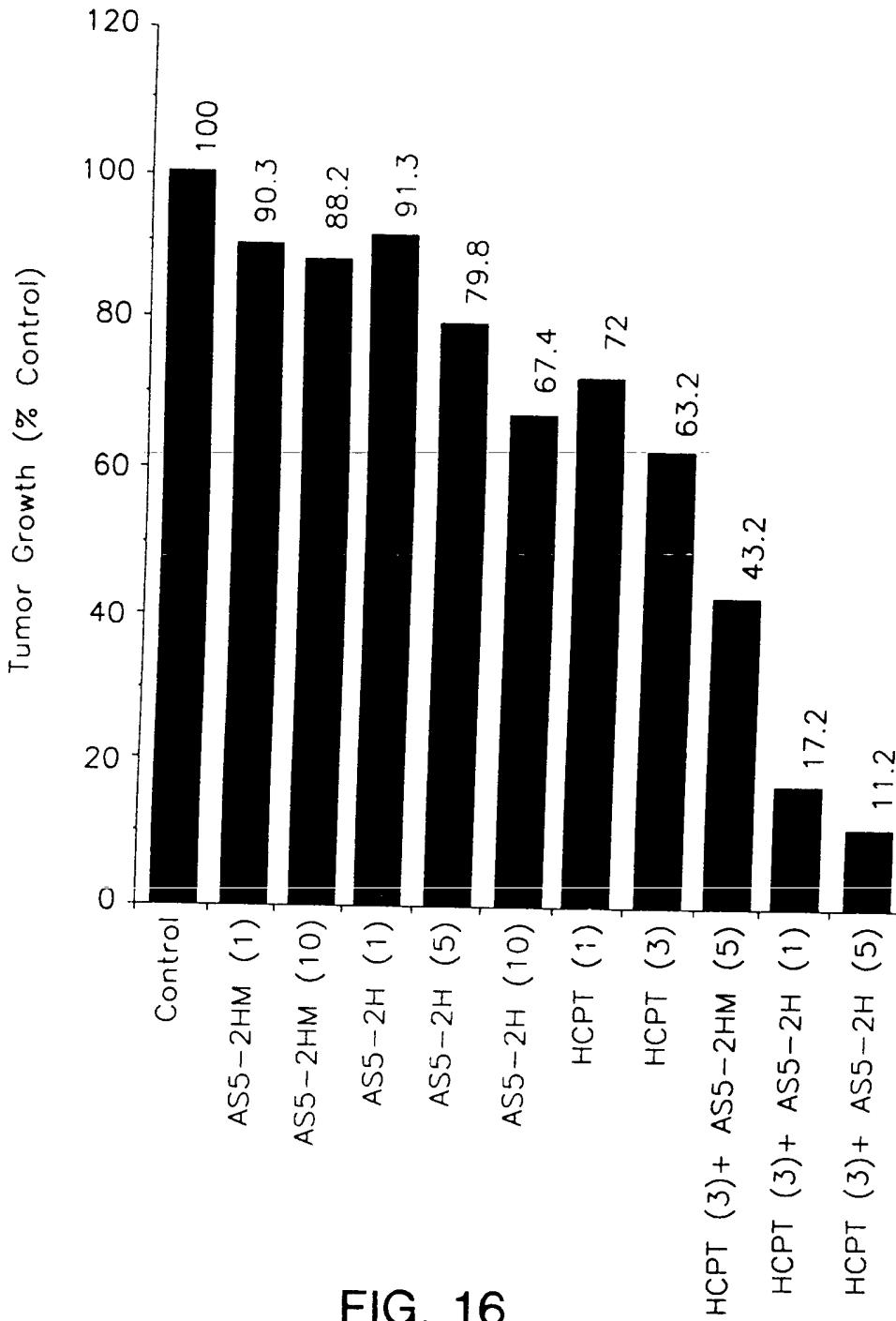


FIG. 16

Anticancer Activity of Anti-MDM2 Oligonucleotides

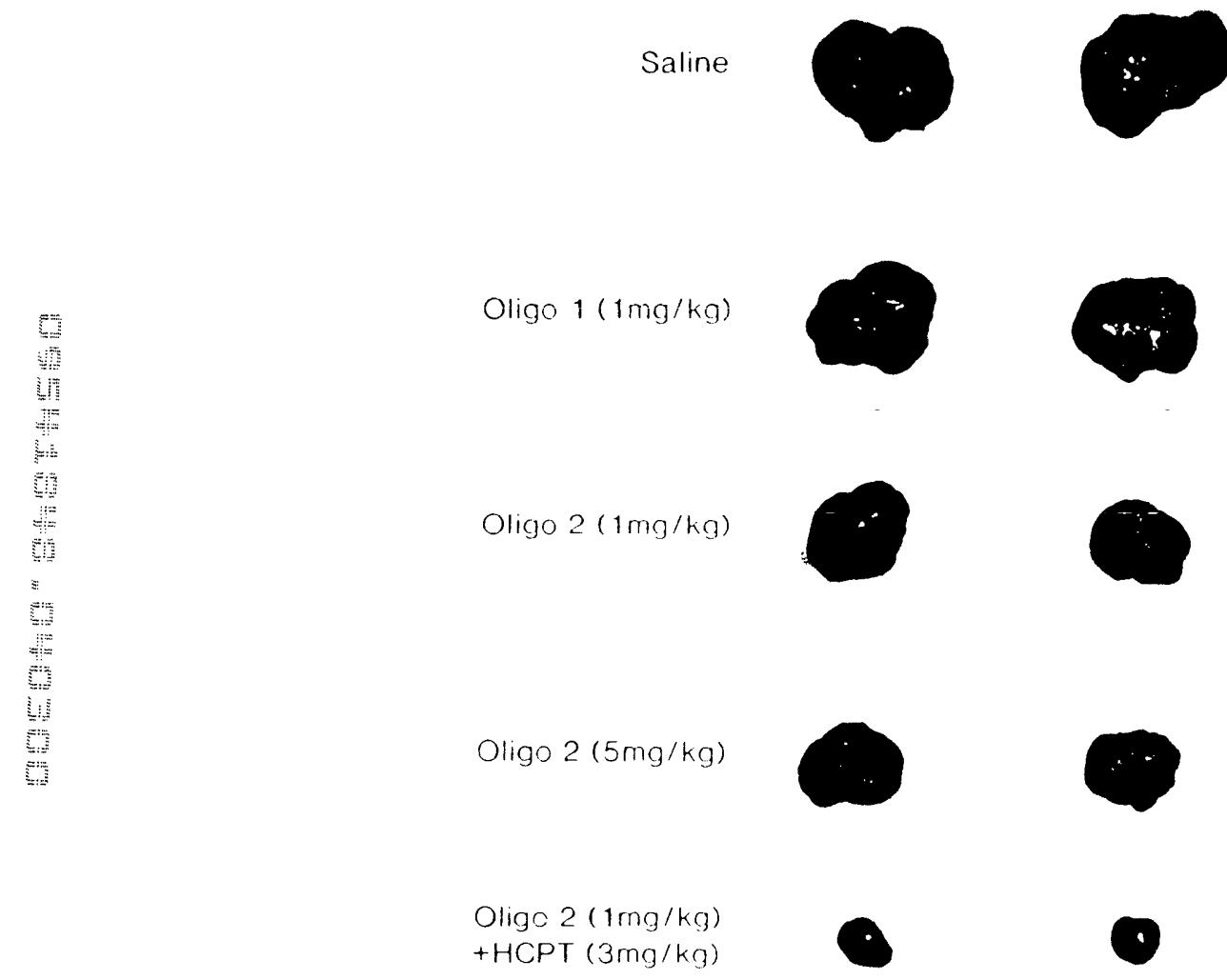


FIG. 17

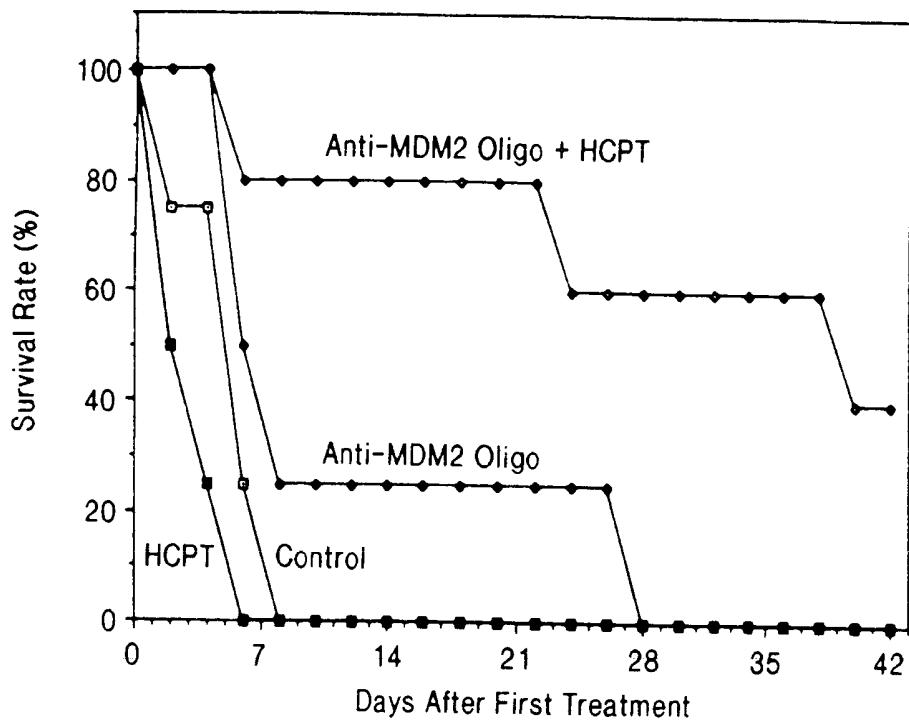


FIG. 18A

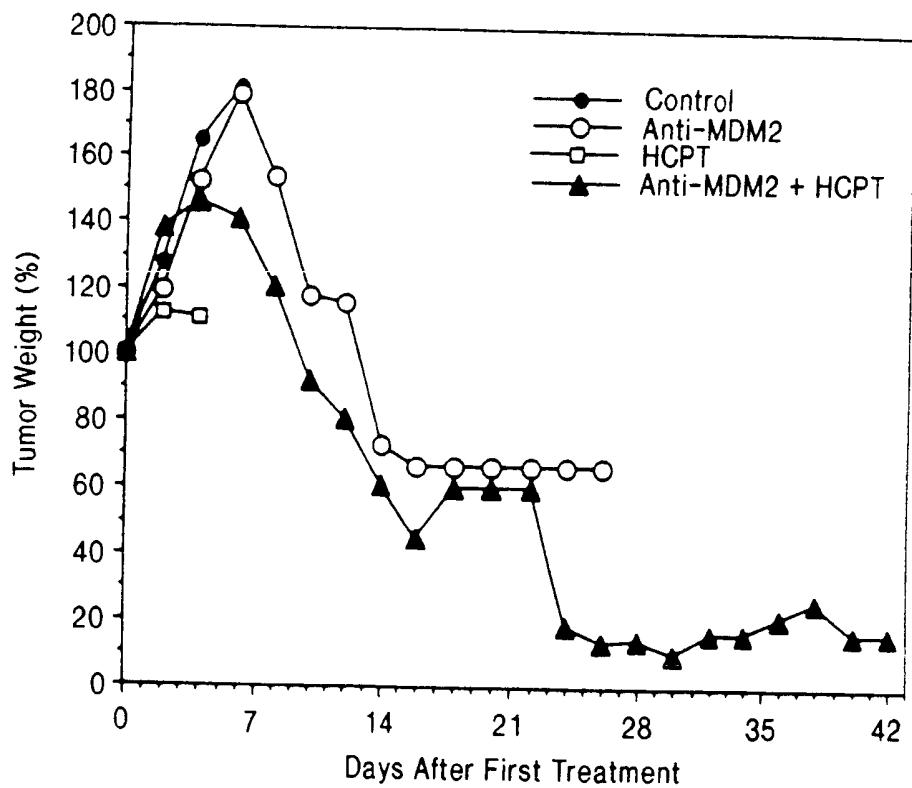
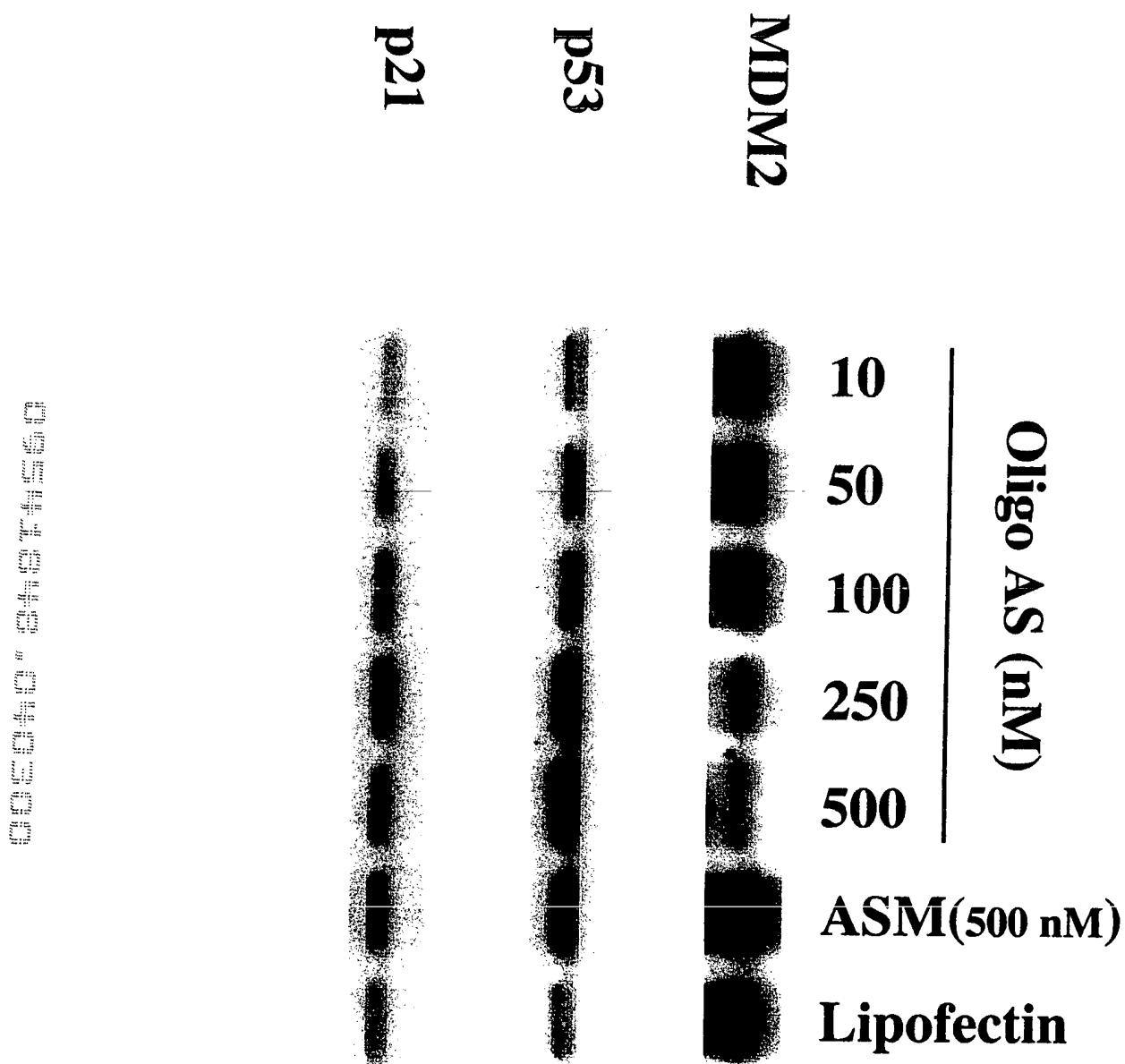
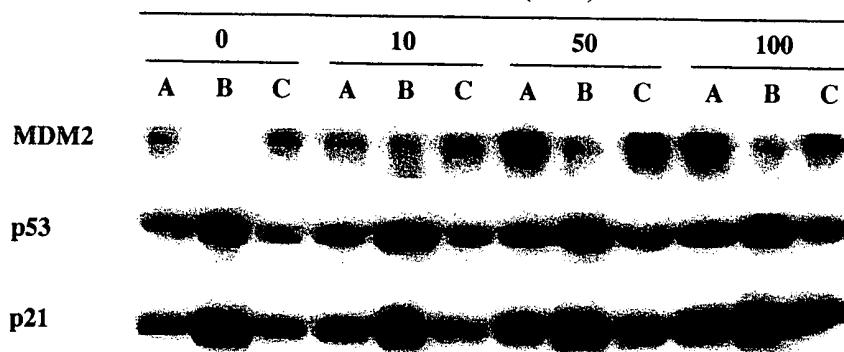


FIG. 18B



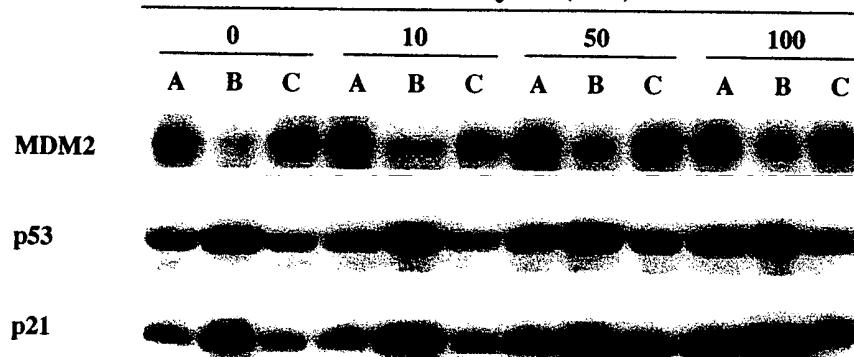
I

HCPT (nM)



II

Adriamycin (nM)



III

5-FU ( $\mu$ M)

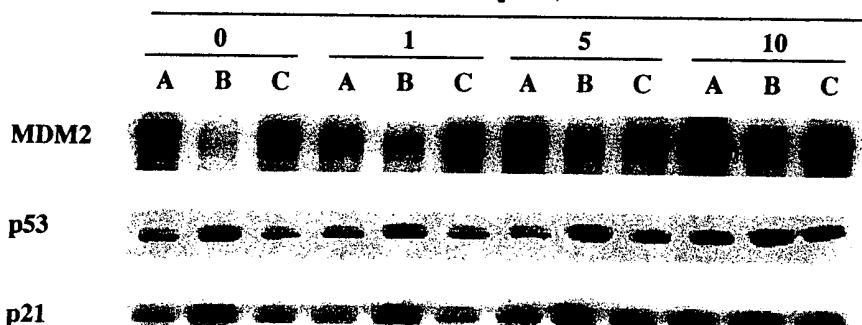


Fig. 20

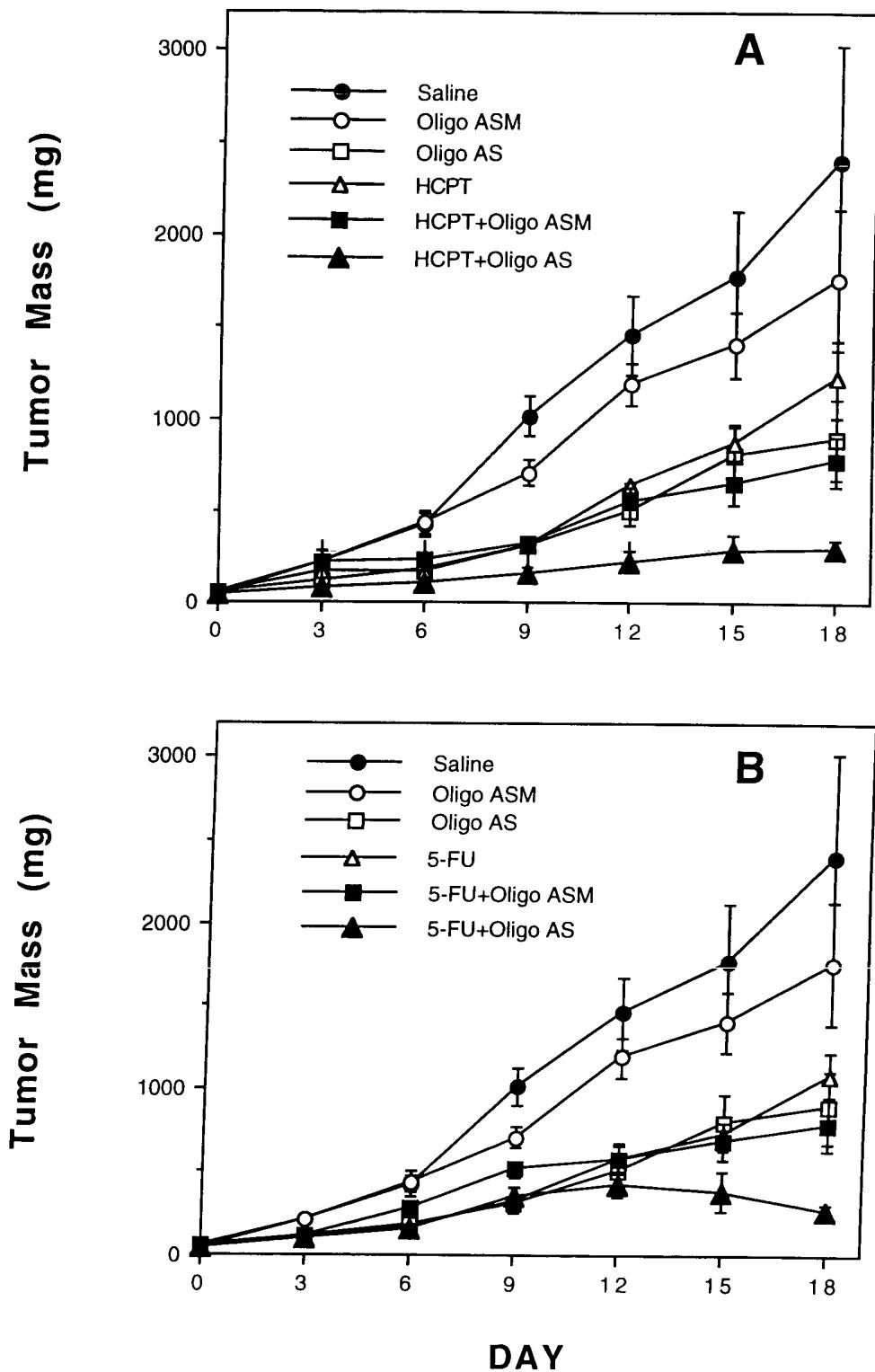
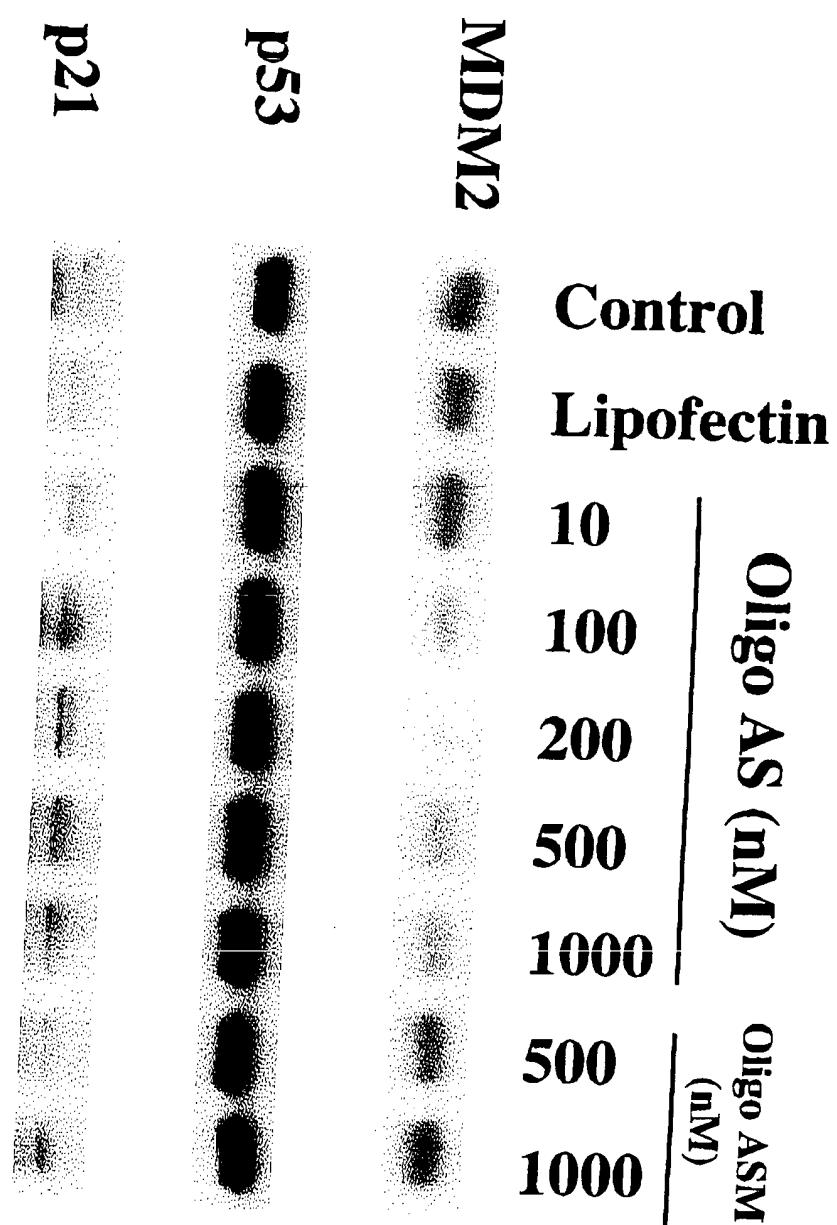


Fig. 21



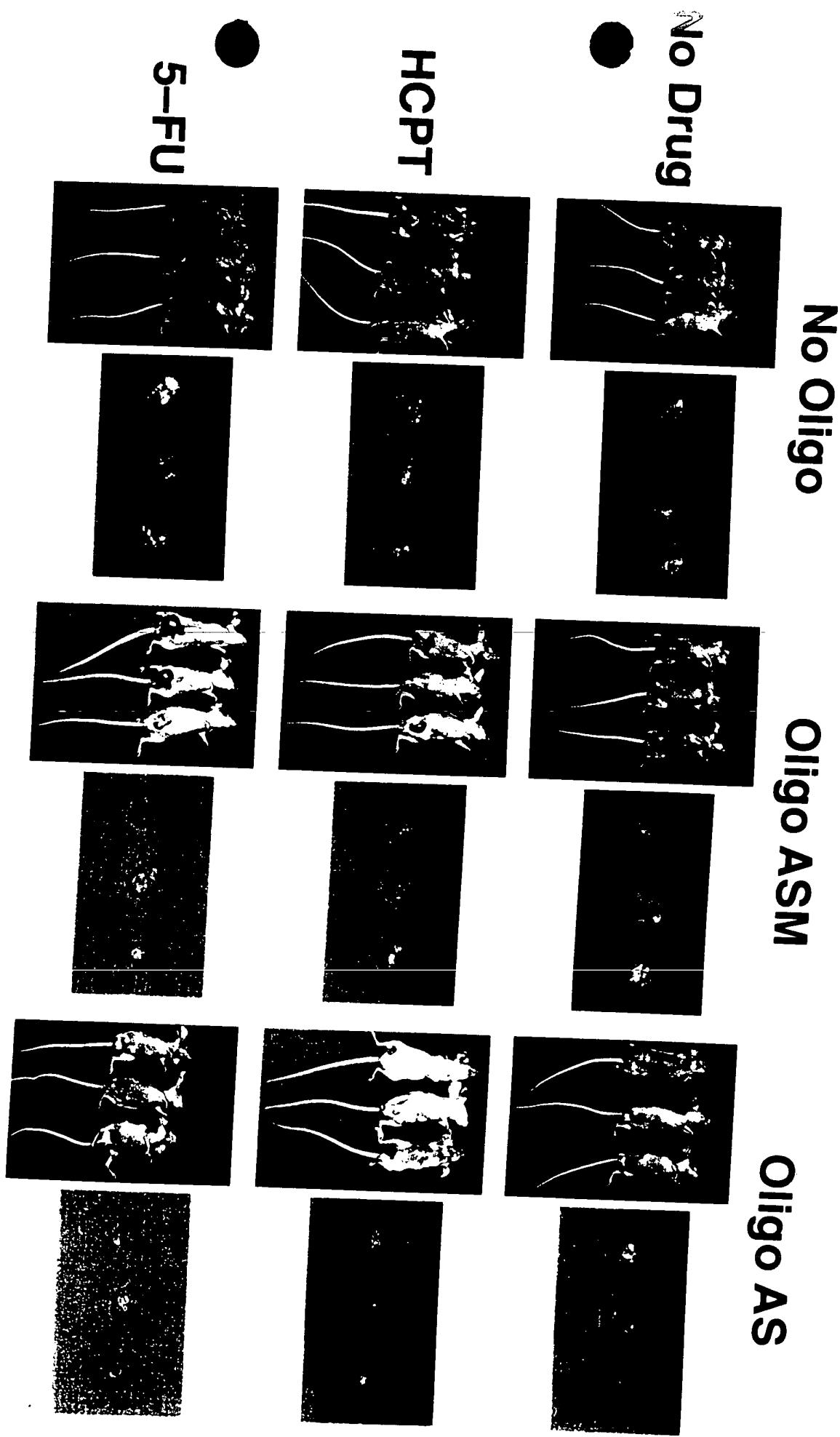
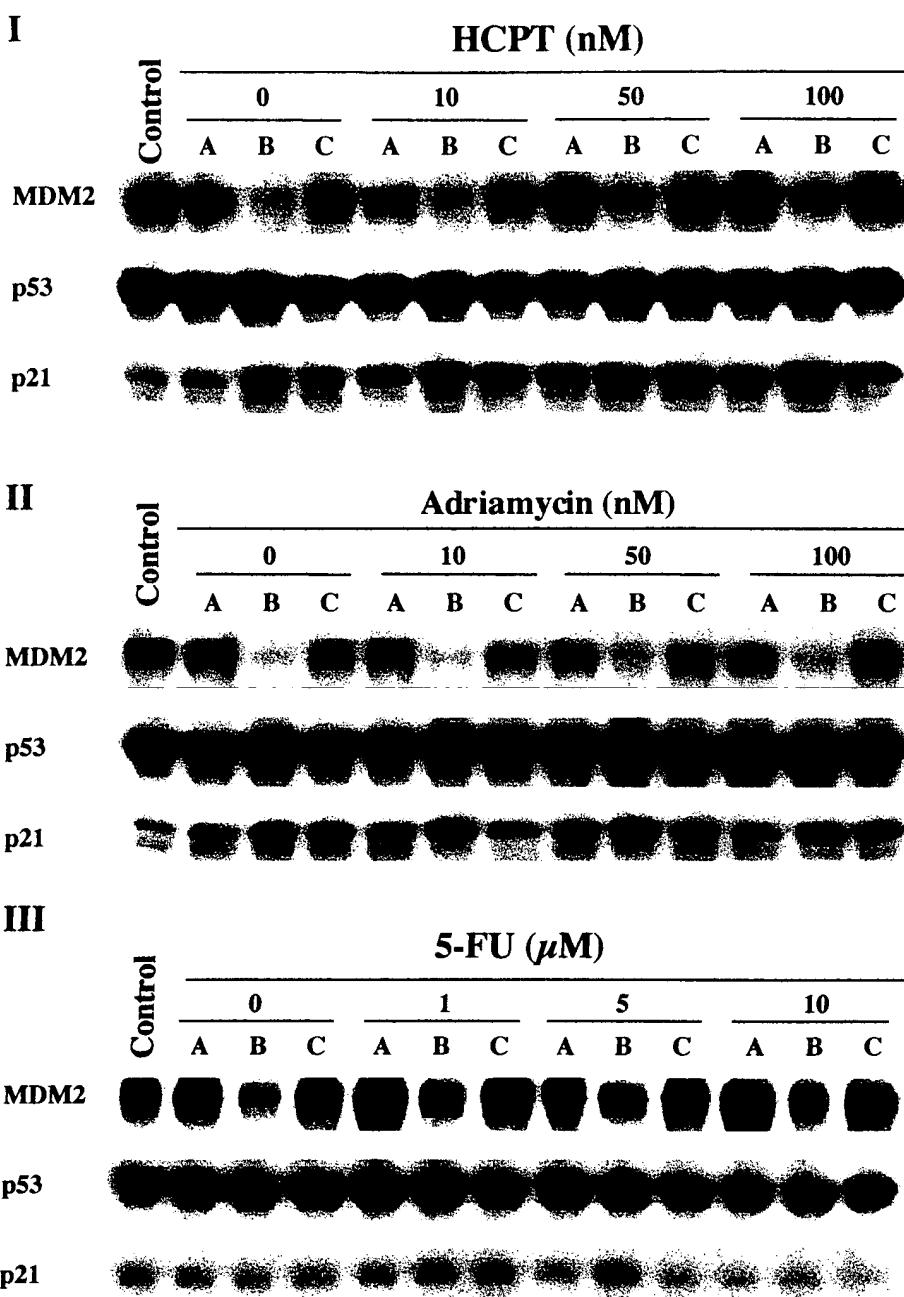


Fig. 23



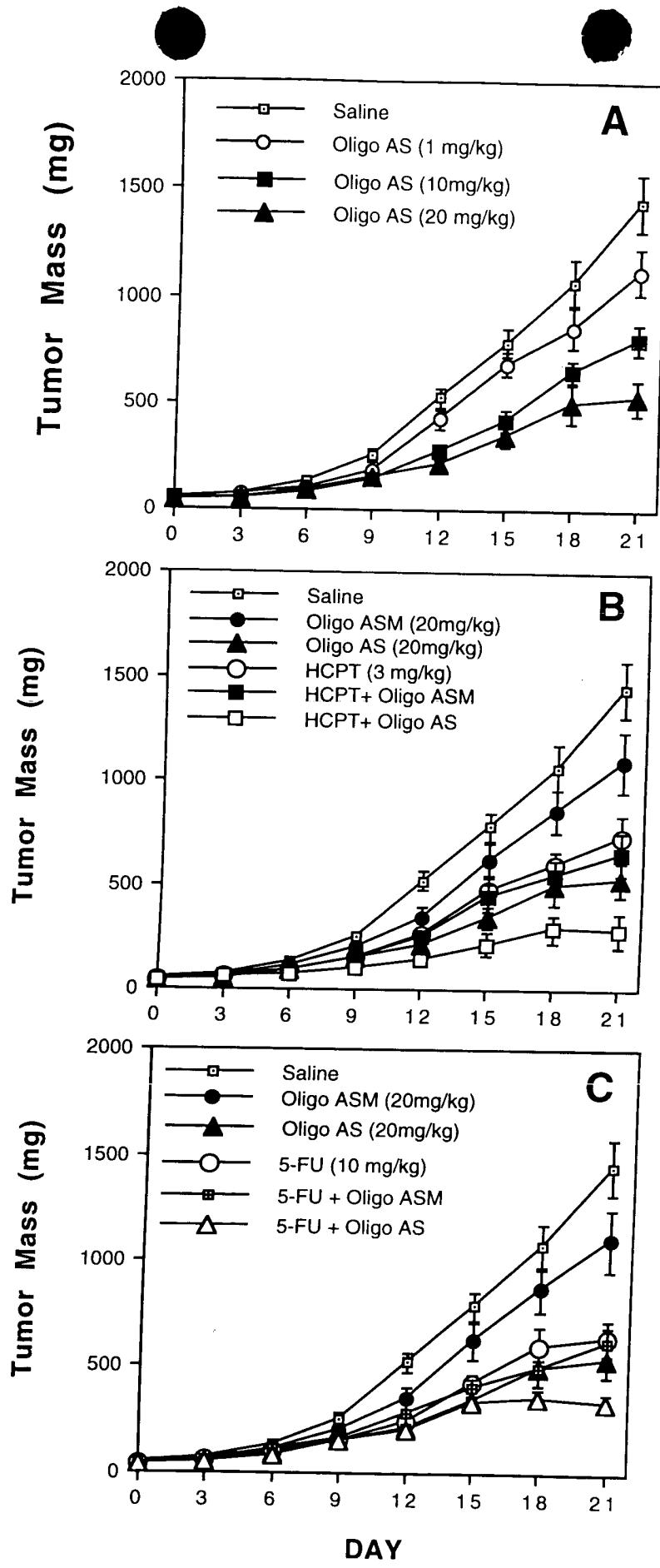


Fig. 25